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NOTICE OF ALLOWANCE AND FEE(S) DUE

23353

7590

09/04/2008

RADER FISHMAN & GRAUER PLLC LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036

EXAMINER				
KIANNI, KAVEH C				
ART UNIT	PAPER NUMBER			
2883	-			

DATE MAILED: 09/04/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579.202	05/12/2006	Akiko Toriyama	SON-3140	6905

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY DEVICE AND PROJECTION TYPE DISPLAY APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/04/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further	correspondence including the correspondence including the contract of the corrected of the	g the Patent, advance o	of the control of the	naintenance fees w	ill be mailed to	o the current	correspondence address as
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WASHINGTON	N, DC 20036						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DO	OCKET NO.	CONFIRMATION NO.
10/579,202 TITLE OF INVENTION	05/12/2006 N: LIQUID CRYSTAL D	ISPLAY DEVICE AND	Akiko Toriyama PROJECTION TYPE DISI	PLAY APPARATU	SON-3	140	6905
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/04/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
KIANNI,	KAVEH C	2883	349-153000	•			
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	lless an assignee is ident th in 37 CFR 3.11. Comp		THE PATENT (print or typ data will appear on the pa T a substitute for filing an : (B) RESIDENCE: (CITY	ntent. If an assigne assignment.		below, the do	ocument has been filed for
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Advance Order -	No small entity discount p	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attached.	fee(s), anv def	•
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Authorized Signature	,			Date			
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LION BUILDING			ART UNIT	PAPER NUMBER
1233 20TH STRE	ET N.W., SUITE 501		2883	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 88 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 88 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	10/579,202 Examiner	TORIYAMA ET AL. Art Unit			
•		0000			
	K. Cyrus Kianni	2883			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commul IGHTS. This application is su	this application. If not include nication will be mailed in due	ed course. THIS		
1. This communication is responsive to <u>5/9/08</u> .					
2. ☑ The allowed claim(s) is/are <u>1-3, 5, 9,10 and 17</u> .					
3. ☑ The drawings filed on <u>12 May 2006</u> are accepted by the Ex	kaminer.				
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	be been received. been received in Application cuments have been received of this communication to file	n No in this national stage applicat			
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF		
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. ☐ DEPOSIT OF and/or INFORMATION about the deport attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on the header according to 37 CFF sit of BIOLOGICAL MATE	in the Office action of e drawings in the front (not the R 1.121(d). RIAL must be submitted. N	•		
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 6/27/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Su Paper No./N 7. ☐ Examiner's A	ormal Patent Application (PTC mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo /K. Cyrus Kianni/ Primary Examiner,	wance		

Page 2

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mr. Tobin 8/5/08 and with Mr. Dutton on 8/12/08 in order to narrow the scope of the

independent claim over the teachings of the prior art of the record and cancel the non-

elected claims so as to facilitate allowing of the case.

In the last line of claim 1, please delete [[gap is 3 µm or less]] and insert mean

gap is substantially 3 µm at a relative contrast ration of 1

Please cancel claims 11, 12, 14, 16 and 18.

Reason for Allowance

Claims 1-3, 5, 9,10 and 17 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the

invention patented in Pat. No. Takeda (US 6661488).

Claim 1 is allowed because the prior art of record, taken alone or in combination, fails to

disclose or render obvious the liquid crystal material used in the liquid crystal layer has

a refractive index anisotropy at room temperature of O. 16 or more, and a cell mean gap

is substantially 3 µm at a relative constant ration of 1 in combination with the rest of the

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limitations of the base claim. Claims 2-3, 5, 9,10 and 17 are allowed by virtue of

dependency.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany

the issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to K. Cyrus Kianni whose telephone number is 571-272-2417. The

examiner can normally be reached on 9:30-19:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/K. Cyrus Kianni/

Primary Examiner, Art Unit 2883

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August 12, 2008